PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 26 and Woodbine Road/ Salem Bottom Road in Carroll County. MD 26 is assumed to run an east-west direction.

This project involves the replacement of the existing span wire mounted signals with black faced signals as well as the addition of Exclusive/Permissive left turn phases on MD 26. The existing loop detectors shall be replaced.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 26 approaches running concurrently. Exclusive/Permissive left turn phases shall be added for both approaches of MD 26. The pedestrian phase with pushbutton actuation across the west leg of MD 26 shall remain in operation. The Woodbine Road/ Salem Bottom Road approaches shall continue operating concurrently.

2. A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall remain in operation at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer(Dave Swartz) at (410) 787-7650 seventy-two hours in advance of intended work.

3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CAT. CODE	ITEM NO.	DESCRIPTION	QUANTITY
585620	5010	12 in white heat applied permanent preformed thermoplastic pavement marking material.	130 LF
585624	5011	24 in white heat applied permanent preformed thermoplastic pavement marking material.	115 LF
800000	8001	Furnish and install non-invasive microprobe set with 1000' lead-in cable.	2 EA
800000	8002	Disconnect existing loop.	8 EA
800000	8003	Furnish and install sign (span wire mounted).	54.5 SF
800000	8004	Furnish and install sign (pole mounted).	72.75 SF
800000	8005	Furnish and install sign on existing ground post.	36 SF
801706	8006	Remove signs from existing overhead structure (pedestrian education signs)	1.5 SF
802145	8007	Adjust existing handhole	3 EA
805115	8008	Furnish and install 3 in. schedule 80 rigid PVC conduit - bored	130 LF
805160	8009	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector sleeve	40 LF
811001	8010	Furnish and install electrical handhole	2 EA
813005	8011	Relocate existing ground mounted sign and supports	LUMP SUM
813006	8012	Relocate signs from existing overhead structures	24 SF
813022	8013	Remove existing ground mounted signs	36 SF
813023	8014	Relocate existing ground mounted signs	20 SF
860270	8015	Furnish and install 8" vehicular traffic signal head section	6 EA
860272	8016	Furnish and install 12" vehicular traffic signal head section	35 EA
860282	8017	Furnish and install 12" 1 way 2 section pedestrian signal head - pole mount (Note: Black Faced)	2 EA
861104	8018	Furnish and install electrical cable - 2 conductor (aluminium shielded)	940 LF
861106	8019	Furnish and install electrical cable - 3 conductor (No. 14 AWG)	145 LF
861107	8020	Furnish and install electrical cable - 5 conductor (No. 14 AWG)	185 LF
861108	8021	Furnish and install electrical cable - 7 conductor (No. 14 AWG)	660 LF
862101	8022	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)	2815 LF
862102	8023	Furnish and install saw cut for signal (loop detector)	775 LF
873001	8024	Remove existing equipment	LUMP SUM

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ALL SIGNAL MATERIALS ARE TO BECOME PROPERTY OF THE CONTRACTOR.

The following contact persons for District #7 are as follows:

Mr. Robert L. Fisher
District Engineer
Phone: (301) 624-8102

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: (310) 624-8141

Mr. Dave Coyne
Assistant District Engineer - Maintenance
Phone: (310) 624-8106

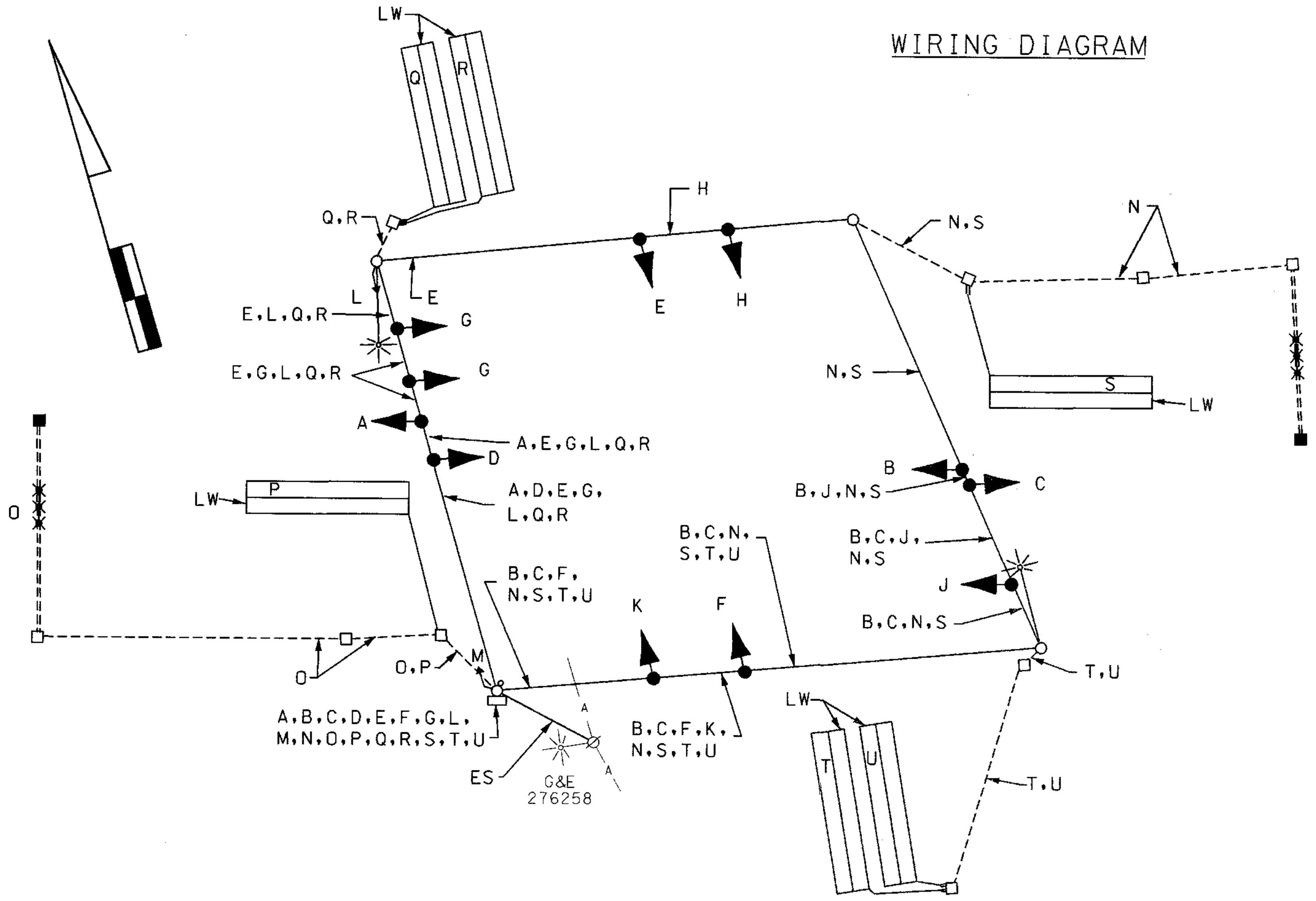
Mr. Jim Buckalew
District Engineer - Utility
Phone: (301) 624-8110

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 5	◄G-/R	◄G-/R	R	◄G-/R	◄G-/R	R	R	R	R	R	R	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6													
PHASE 1 & 6	◄G-/G	◄G-/G	G	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	R	R	R	◄G-/G	◄G-/G	G	G	R	R	R	R	DW	DW
2 & 5 CHANGE	R	R	R	◄Y-/G	◄Y-/G	G	G	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	G	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	R	R	G	G	G	G	WK	WK
PED CLEAR	R	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
4 & 8 CHANGE ALT	R	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A, B, C, D, E, F — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

G, H, J, K — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

L, M — 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

N, O — NON-INVASIVE MICROLOOP LEAD-IN CABLE

P, Q, R, S, T, U — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED

LW - LOOP WIRE (NO. 14 A.W.G.)

ES - EXISTING OVERHEAD SERVICE BY BGE

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,N.W.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

4000gi.dgn TASK13.dgn

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 26 AND WOODBINE ROAD / SALEM BOTTOM ROAD

DRAWN BY:		F.A.P. NO.		TS NO. 1690B	SHEET NO.
CHECKED BY:		S.H.A. NO.	CL8545176		
SCALE:	NA	COUNTY:	CARROLL	T.I.M.S. NO. E526	
DATE:	12/11/01	LOG MILE:	0602603.62		17 OF 43